

Release B GUI Workshop I

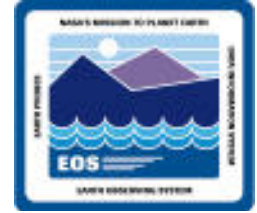
Ingest Operations

Carey Gire, Anne Gill, Lemoine Vilceus

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Overview

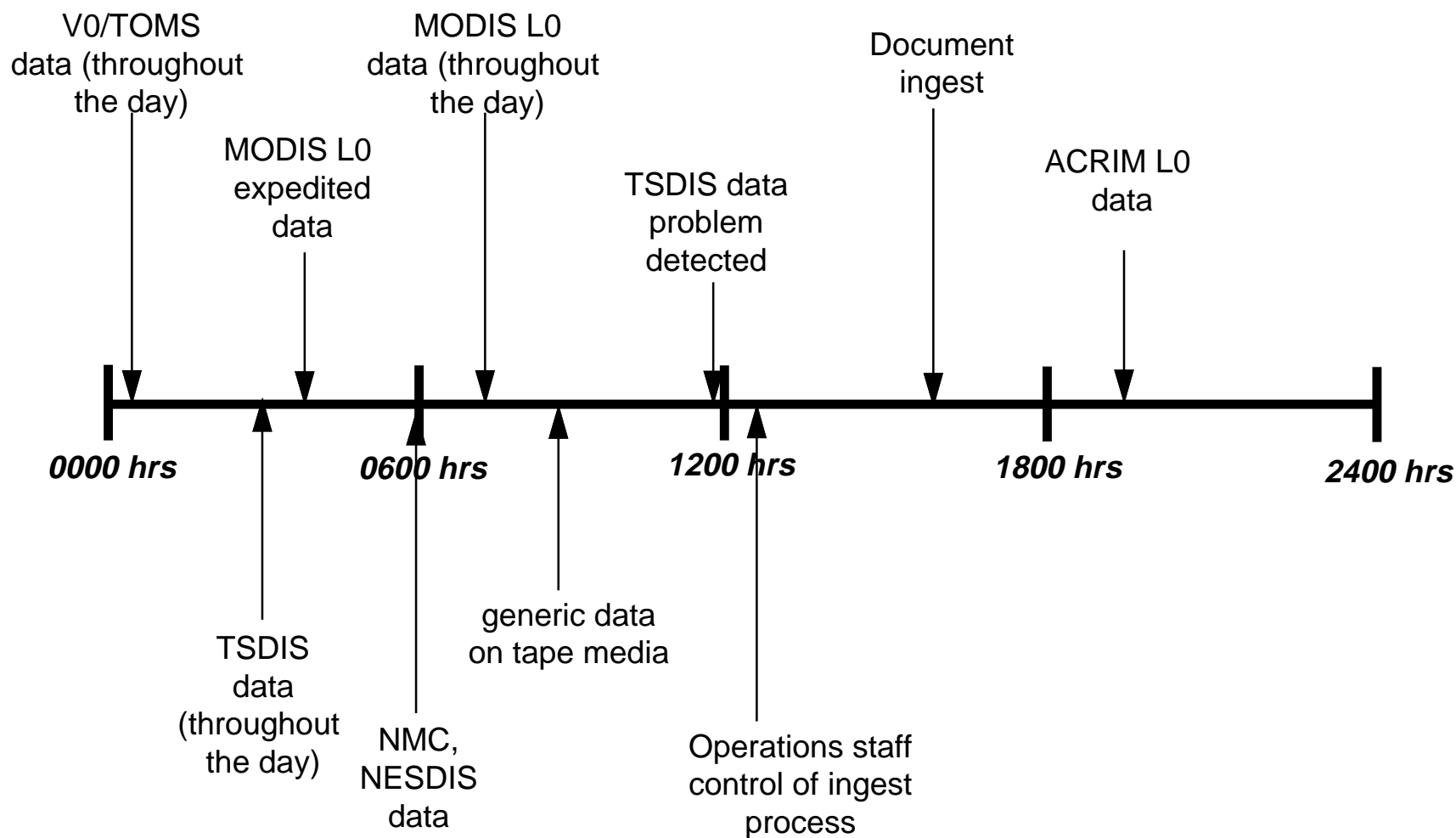
Summary and Context



- **Summary:** This script highlights the GUIs used to perform a typical day's Ingest activities at a Release B DAAC.
- **Context:**
 - Invoke initial Ingest GUI screens
 - Monitor normal ongoing Ingest activities
 - View the Ingest activities occurring before the current shift and define necessary catch-up activities
 - Set Ingest thresholds to match current day's load
 - Generic Ingest media ingest (including tape check-in)
 - Evaluate error condition and control ingest processing
 - Ingest HTML screens (for document ingest, etc.)

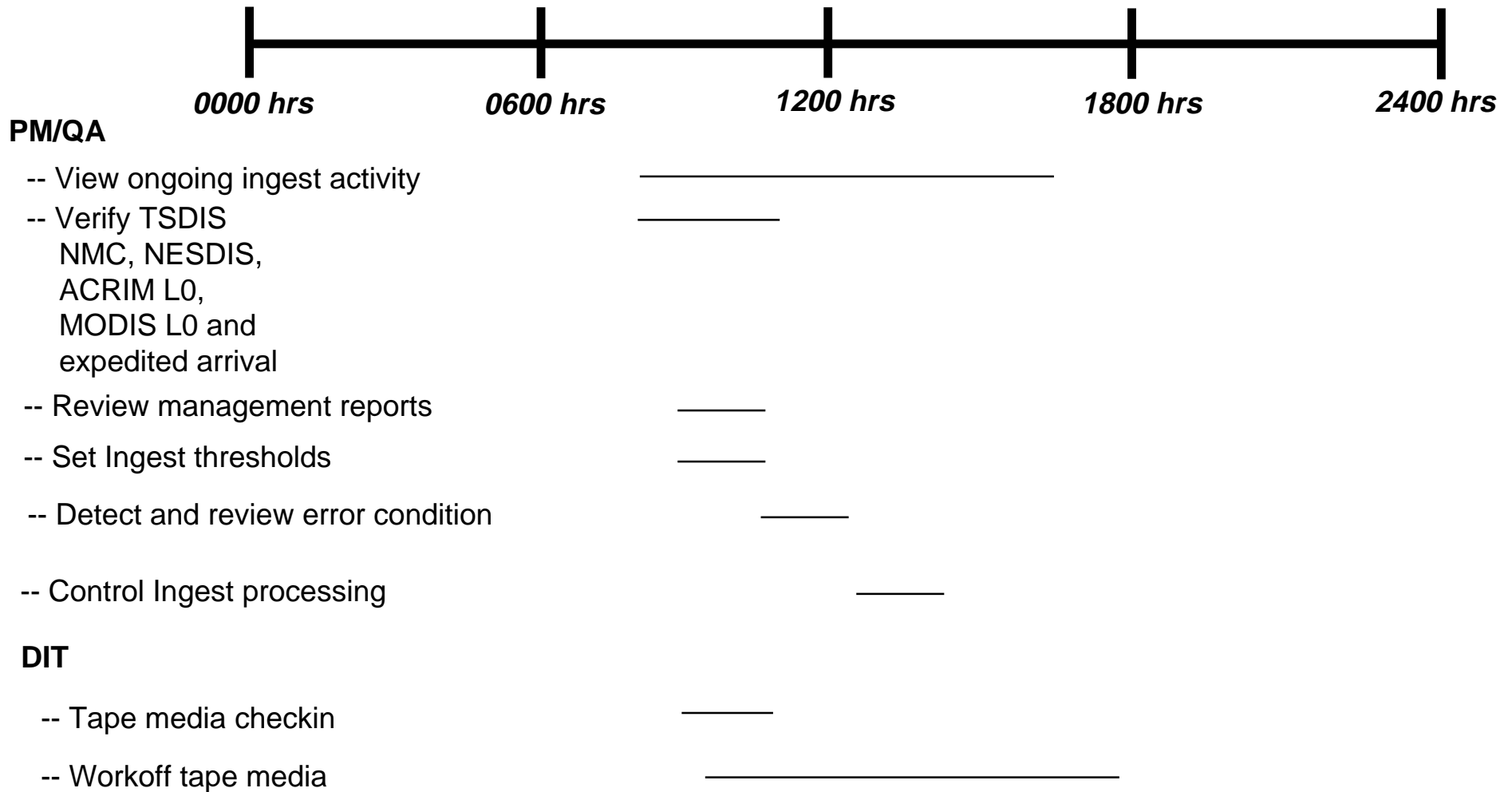
Scenario Timeline

Representative GSFC DAAC Events



DAAC Activity Timeline

Representative DAAC Activities



Script 1: This script highlights the GUIs used to perform a typical day's Ingest activities at a Release B DAAC.

Preconditions:

1. The Production Monitor/QA Operator (PM/QA) has logged onto GSFC DAAC Desktop. Identification validated.

Steps:

STEP #	TIME	PLAYER	ACTIVITY	GUI
1	0800	Production Monitor/QA Operator (PM/QA)	PM/QA invokes the Ingest Subsystem GUIs.	Invokes the <u>ECS Ingest GUI Interface</u> from the desktop.
2	0805	PM/QA	PM/QA views ongoing Ingest processes.	Invokes <u>Ingest Status Monitoring/Request Control</u> to display ongoing requests at their current state of completion. <u>Ingest Status Monitoring/Request Control</u> is left open to enable the PM/QA to continue to view the ongoing Ingest activities.
3	0815	PM/QA	PM/QA views the previous day's Ingest activity. Version 0 data migration volumes were not as high as expected. Catch-up ingest for the additional data will be scheduled in today's Ingest activities.	Invokes <u>Ingest History Log</u> to a) view the previous day's activities to check for receipt of expected data; and b) generate a standard daily report on the previous day's Ingest activity. Review event log as necessary for detailed event information.
4	0845	PM/QA	PM/QA calculates increased data volume required to support catch-up ingest on Version 0 data migration.	Invokes <u>Ingest Threshold Control</u> to increase the data volume limit for the ECS/V0 DAAC interface to accommodate the expected Version 0 data volumes.

5	0900	DIT	Ongoing Ingest activities are proceeding normally. The DIT checks in the new media using a bar code reader. The DIT then begins physical media ingest work-off for generic data received on generic tape.	Invokes <u>Ingest Media</u> to specify media to ingest. Note: the primary use of the Ingest Media capability is at the EDC, where ASTER and Landsat-7 IGS data are received on D3 and 8mm tape, respectively. Occasional V0 data will be migrated using tape media as well.
6	1200	PM/QA	PM/QA notes an Error Condition: ongoing TSDIS data ingest request is stuck (i.e., the time to perform ingest processing has passed the requested request expiration date/time). Note: processing continues in this case until the request completes, is suspended, or is canceled.	<u>Ingest Status Monitoring/Request Control</u> indicates the TSDIS request has passed the requested request expiration date/time. PM/QA receives notification message.
7	1215	PM/QA	PM/QA suspends the TSDIS request. TSDIS data ingest will be resumed or canceled after the reason for the problem is resolved.	Invokes the control features of <u>Ingest Status Monitoring/Request Control</u> to suspend the TSDIS request.
8	1230	Operations Supervisor (OS)	The Operations Supervisor diagnoses the TSDIS problem—a required resource was not available. The PM/QA releases the required resource and resumes the TSDIS request. Alternatively, the PM/QA could cancel the request, whereby TSDIS would be notified to resubmit.	Invokes the control features of <u>Ingest Status Monitoring/Request Control</u> to resume the TSDIS request.
9	1600	PM/QA	PM/QA enters hardcopy documents into digitizer. COTS software is used to control output. PM/QA uses HTML Interactive Ingest forms to submit for Ingest processing. Note: the HTML capability is also used by Instrument Teams at the SCFs (for algorithm package data ingest) as well as by other authorized science users (for derived data ingest).	Invokes the <u>Interactive Ingest</u> HTML forms to identify data to be ingested.

INGEST OPERATOR GUI FUNCTIONAL DESCRIPTION

There are four independent Operator GUI interfaces. Refer to DID305, Volume 25, section 4.5.6 for detailed information on Ingest Operator GUI interface and to DID 605.

INGEST MW

This is the parent ingest GUI main window, which includes functions to instantiate all widgets for the Ingest GUI, as well as to check operator privileges.

1. HISTORY LOG

This GUI provides operations personnel the capability to view ingest activities that are no longer active. Operations personnel can selectively view the ingest History Log based on the following search criteria: 1) Ingest Start and Stop date/time, 2) Data Provider ID, 3) Data Set name, and/or 4) Final Request Status. Operations personnel can view either a detailed log by request or granule level, or a statistical summary by request or granule level.

2. REQUEST CONTROL

This GUI provides operations personnel the capability to monitor and update ongoing ingest activities in the system. Operations personnel could view either all or a selected set of the ingest request in the system. The selection is based on: 1) the Ingest Request ID, 2) the Data Provider ID, or 3) All Requests. The update service includes changing the priority of, canceling, suspending, and resuming one or more ongoing requests.

3. OPERATOR TOOLS

This GUI provides operations personnel the capability to: 1) modify parameters associated with an external data provider and/or 2) modify system parameters that affect all ingest requests.

4. MEDIA INGEST

This GUI provides operations personnel the capability to perform media ingest. A GUI screen is available for tape check-in by operations personnel. Operations personnel may use a bar code reader or may manually enter bar code information. The media ingest screen is subsequently used to select the set of media to ingest. A Delivery Record file is required for media ingest. Data providers may either embed the file on the hard media or transfer the file onto magnetic disk local to ECS.